

PRODUCT SUMMARY

SKY12247-492LF: 3.4 to 3.8 GHz, 100 W Compact High-Power SPDT Switch with Integrated Driver

Applications

- TDD 2G/3G/4G LTE systems
- High-power switch for micro-cell and macro-cell base stations
- Active antenna array

Features

- Compact, integrated high-power switch with driver circuit
- Small PCB footprint with minimal external components
- Requires only a single +5 V DC supply, and a 0 to 3 V logic control
- Low TX/RX insertion loss: 0.3/0.75 dB typical
- High TX to RX isolation: 45 dB typical @ 3.6 GHz
- Low DC power consumption: <130 mA in TX or RX mode
- Small QFN (20-pin, 5 × 5 mm) Pb-free package (MSL3, 260 °C per JEDEC J-STD-020)



Skyworks Green™ products are compliant with all applicable legislation and are halogen-free. For additional information, refer to *Skyworks Definition of Green™*, document number SQ04-0074.

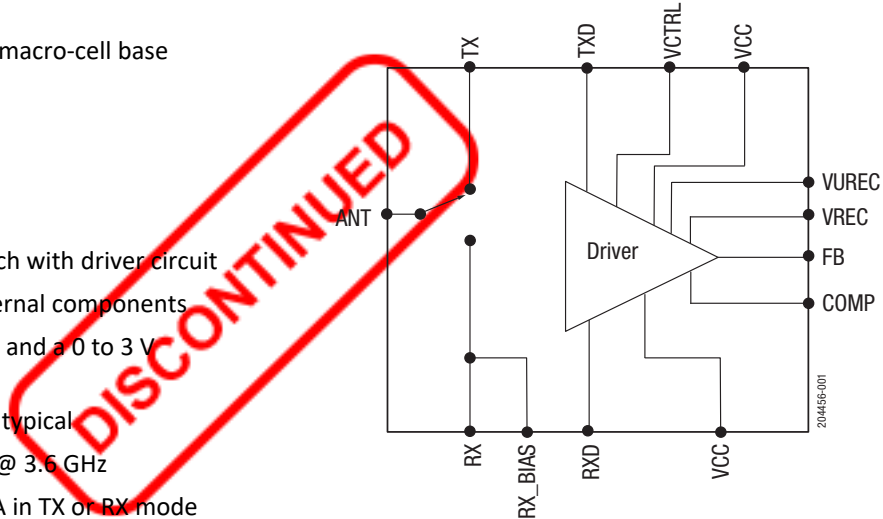


Figure 1. SKY12247-492LF Block Diagram

Description

The SKY12247-492LF is a compact, integrated high-power single-pole, double-throw (SPDT) switch with driver circuit for TD-LTE applications. The part operates with a single +5 V supply and switches with a single control voltage (0 to 3 V).

This device features low TX and RX insertion loss, high isolation with low DC power consumption and requires minimal external components, enabling a smaller PCB footprint.

The device is provided in a 5 × 5 mm, 20-pin Quad Flat No-Lead (QFN) package. A functional block diagram is shown in Figure 1.

Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKY12247-492LF	100 W Compact High-Power SPDT Switch	SKY12247-492EK1



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